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NMED
Hazardous Waste Bureau

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Date: APR 21 2016
Refer To: ADESH-16-047
LAUR: 16-22639
Locates Action No.: n/a

John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Monthly Notification of Groundwater Data Reviewed in April 2016

Dear Mr. Kieling:

This letter is Los Alamos National Laboratory's (LANL's) written submission that meets notification requirements presented in Section IV.A.3.g, Notification, of the Compliance Order on Consent (Consent Order). Members of LANL's Associate Directorate for Environmental Management met on April 13, 2016, to review new groundwater data received in March 2016. This report was prepared by comparing the data against groundwater cleanup levels, as defined in Section VIII.A.1 of the Consent Order. For comparison with U.S. Environmental Protection Agency (EPA) tap water standards, the carcinogenic risk was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the November 2015 EPA regional screening levels.

This report also includes analytical data from samples collected in San Ildefonso Pueblo, which are subject to reporting at this time. These data have been reviewed by San Ildefonso Pueblo. This review is required under the Memorandum of Agreement dated May 28, 2014, between the U.S. Department of Energy, National Nuclear Security Administration, Los Alamos Field Office, and San Ildefonso Pueblo.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission standard or federal maximum contaminant level at locations where contaminants have not been previously detected above the respective standard (based on samples collected since June 14, 2007).

Notification was not required because there were no cases of a contaminant detected in a well screen interval or spring at a concentration that exceeded a water quality standard for the first time.

15-Day Notification

The required information for the contaminants and other chemical parameters that meet the six reporting criteria requiring written notification within 15 days is given in the accompanying report and table.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

BR/DR/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in April 2016 That Meet Notification Requirements (EP2016-0056)

Cy: (w/enc.)
Steve Paris, ADEM ER Program, MS M992
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Michelle Hunter, NMED-GWQB
Steve Yanicak, NMED-DOE-OB, MS M894
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
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Jake Meadows, ADESH-EPC-CP, MS K490
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
Pete Padilla, Los Alamos County Utility Department, Los Alamos, NM
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Hai Shen, DOE-EM-LA
David Rhodes, DOE-EM-LA
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Tim Goering, ADEM ER Program
Stanislaw Marczak, ADEM ER Program
Robert Cygnarowicz, ADEM ER Program
Bruce Robinson, ADEM ER Program
Randy Erickson, ADEM
Jocelyn Buckley, ADESH-EPC-CP
Mike Saladen, ADESH-EPC-CP
Leslie Dale, ADESH-EPC-CP
John McCann, ADESH-EPC-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

SUMMARY OF GROUNDWATER DATA REVIEWED IN APRIL 2016
THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan and contains results for chemical constituents that meet the six screening criteria laid out in the Compliance Order on Consent (Consent Order). The report covers groundwater samples taken from wells or springs (listed in the accompanying table) that provide surveillance of the groundwater zones indicated in the table.

The report includes one table, *Table 1: NMED 03-16 Groundwater Report*. This table contains some values that are reported when they are detected for the first time since June 14, 2007, or are greater than other data collected since that time (as specified in the Consent Order). These reported data may be similar to data gathered before June 14, 2007.

This table includes the following:

- Additional comments on results that appear to be exceptional or based on consideration of monitoring data acquired before the current result (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current result
- Sampling date, name of the well or spring, location of the well or spring, depth of the screened interval, groundwater zone sampled, analytical result, detection limit, values for regulatory standards or screening levels, and analytical and secondary validation qualifiers. Additional information describing the locations and analytical data is also included. All data have been through secondary validation.

In accordance with the Consent Order, the screening levels used include the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), the New Mexico groundwater standards, and the EPA regional screening levels for tap water (for compounds having no other regulatory standard). The EPA regional screening levels for tap water are either for cancer (10^{-6} excess risk) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, to achieve 10^{-5} excess cancer risk as indicated in Section VIII.A.1 of the Consent Order. This report was prepared using the November 2015 EPA regional screening levels.

Background levels applied in Criteria 2 and 5 are the NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report, Revision 3," prepared under Section IV.A.3.d of the Consent Order.

DESCRIPTION OF TABLE

15-Day Notification Requirement

The table is divided into separate categories that correspond to the six screening criteria in the Consent Order. Some data meet more than one of the criteria and appear in the table multiple times. The table also presents only the instances where the results exceed criteria; therefore, all six criteria may not appear in the table.

The criteria are as follows:

C1. Detection of a contaminant that is an organic compound in a spring or screened interval of a well if that contaminant has not previously been detected in the spring or screened interval.

C2. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the background level in a spring or screened interval of a well if that contaminant has not previously exceeded the background level in the spring or screened interval.

C3. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or if there is no such standard for the contaminant, one-half the EPA Region 6 human health medium-specific screening level for tap water (now the EPA Regional Screening Levels for tap water), if that contaminant has not previously exceeded one-half such standard or screening level in the spring or screened interval.

C4. Detection of perchlorate in a spring or screened interval of a well at a concentration of 2 µg/L or greater if perchlorate at such concentration has not previously been detected in the spring or screened interval.

C5. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds 2 times the background level for the third consecutive sampling of the spring or screened interval.

C6. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal MCL, and that has increased for the third consecutive sampling of that spring or screened interval.

The next seven columns of the table give information on monitoring results obtained prior to the current result. The columns provide summary statistics for the samples collected since January 1, 2000, for the same analyte and field preparation (for example, filtered samples). The information includes the date of the first sampling event included in the statistics, the numbers of sampling events and samples analyzed, the number of detections, and the minimum, maximum, and median concentration for detections. This information indicates whether the new result is consistent with the range of earlier data.

The subsequent columns contain location and sampling information:

Hdr 1—canyon where monitoring location is found

Zone—groundwater zone sampled by monitoring location (such as alluvial spring)

Location—monitoring location name

Screen Depth—depth of top of well screen in feet (0 for springs, –1 if unknown)

Start Date—sample date

Fld QC Type Code—identifies regular samples (REG) or field duplicates (FD)

Fld Prep Code—identifies whether samples are filtered or unfiltered

Lab Sample Type Code—indicates whether result is a primary sample (INIT) or reanalysis (RE)

Anyl Suite Code—analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Analyte—chemical symbol for analyte or CAS (Chemical Abstracts Service) number for organic compounds

Std Result—analytical result in standard measurement units

Result/Median—ratio of the Std Result to the median of all detections since 2000

LVL Type/Risk Code—type of regulatory standard, screening level, or background value (indicating groundwater zone) used for comparison

Screen Level—value of the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to LVL Type/Risk Code. In earlier versions of this report, the ratio was divided by the basis for comparison in the criterion, but that is no longer the case. For example, for a criterion (such as C3) that compares the value to one-half the standard, a value equal to a standard previously had an exceedance ratio of 2. The current report shows this ratio as 1.

Std Mdl—method detection limit in standard measurement units

Std Uom—standard units of measurement

Dilution Factor—amount by which the sample was diluted to measure the concentration

Lab Qual Code—analytical laboratory qualifiers indicating analytical quality of the sample

Validation Flag—secondary validation qualifier

Validation Reason Code—concatenated secondary validation codes explaining assignment of qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 03-16 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	9	9	04/26/07	0.552	0.552	0.552	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LADP-3	316	03/02/16	REG	F	INIT	METALS	Lead	Pb	0.552	1	LANL Int BG LVL	0.5	1.1	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	32	35	06/09/05	0.075	0.075	0.075	1	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	FD	UF	INIT	METALS	Mercury	Hg	0.075	1	LANL Int BG LVL	0.06	1.3	0.067	ug/L	1	J	J	J_LAB	EPA:245.2	GELC	Report detection is for field duplicate sample. The result for the primary unfiltered sample from the same sampling event was nondetect.
C2	36	44	05/26/05	100	671	137	44	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	02/17/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	671	4.9	LANL Reg BG LVL	191.7	3.5	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C2	41	44	05/20/05	72.9	72.9	72.9	1	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	METALS	Aluminum	Al	72.9	1	LANL Reg BG LVL	68	1.1	68	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	23	23	02/28/09	106	280	154	23	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	02/10/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	280	1.8	LANL Reg BG LVL	191.7	1.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C2	25	30	03/06/10	131	231	156	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	02/16/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	231	1.5	LANL Reg BG LVL	191.7	1.2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C2	15	21	03/26/12	2.96	3.39	3.175	2	Sandia Canyon	Regional	R-62	1158.4	02/19/16	REG	F	INIT	METALS	Tin	Sn	3.39	1.1	LANL Reg BG LVL	3.26	1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	2	2	12/03/15	38.3	38.3	38.3	1	Sandia Canyon	Regional	R-67	1242.6	02/03/16	REG	F	INIT	METALS	Iron	Fe	38.3	1	LANL Reg BG LVL	21	1.8	30	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	2	2	12/03/15	1.87	2.98	2.425	2	Sandia Canyon	Regional	R-67	1242.6	02/03/16	REG	F	INIT	METALS	Molybdenum	Mo	2.98	1.2	LANL Reg BG LVL	2	1.5	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C2	2	2	12/03/15	157	256	206.5	2	Sandia Canyon	Regional	R-67	1242.6	02/03/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	256	1.2	LANL Reg BG LVL	191.7	1.3	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C2	2	2	12/03/15	1.41	1.96	1.685	2	Sandia Canyon	Regional	R-67	1242.6	02/03/16	REG	F	INIT	GENINORG	Uranium	U	1.96	1.2	LANL Reg BG LVL	1.9	1	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C3	29	39	10/21/08	354	796	420	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	796	1.9	NM GW STD	1000	0.8	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C3	36	44	05/26/05	100	671	137	44	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	02/17/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	671	4.9	NM GW STD	1000	0.7	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C3	39	42	09/01/05	249	720	291.5	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	720	2.5	NM GW STD	1000	0.7	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C5	55	63	03/12/01	0.11	1.51	1.01	63	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	02/12/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.934	0.9	LANL Avl BG LVL	0.27	3.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	39	45	04/27/05	3.23	31.7	10.2	45	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	02/12/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	4.32	0.4	LANL Avl BG LVL	0.05	86.4	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	56	64	03/12/01	241	601	312.5	64	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	02/12/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	287	0.9	LANL Avl BG LVL	139	2.1	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	
C5	61	68	03/12/01	0.726	1.79	1.25	67	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	02/12/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.928	0.7	LANL Avl BG LVL	0.27	3.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	43	48	04/28/05	6.23	47.5	11.8	48	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	02/12/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	8.33	0.7	LANL Avl BG LVL	0.05	166.6	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	61	68	03/12/01	220	556	308	68	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	02/12/16	REG	F	RE	GENINORG	Total Dissolved Solids	TDS	309	1	LANL Avl BG LVL	139	2.2	3.4	mg/L	1	H	NQ	NQ	EPA:160.1	GELC	
C5	10	10	04/26/07	0.127	0.161	0.138	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LADP-3	316	03/02/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.147	1.1	LANL Int BG LVL	0.05	2.9	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	36	40	06/09/05	0.083	0.157	0.1335	34	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.147	1.1	LANL Int BG LVL	0.03	4.9	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	36	40	06/09/05	0.083	0.157	0.1335	34	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.149	1.1	LANL Int BG LVL	0.03	5	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	36	45	06/09/05	1.1	8.06	4.06	39	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	FD	F	INIT	METALS	Chromium	Cr	6.23	1.5	LANL Int BG LVL	1	6.2	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	36	45	06/09/05	1.1	8.06	4.06	39	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	REG	F	INIT	METALS	Chromium	Cr	6.28	1.5	LANL Int BG LVL	1	6.3	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	36	40	06/09/05	3.17	5.9	4.48	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.6	1.2	LANL Int BG LVL	2.41	2.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	36	40	06/09/05	3.17	5.9	4.48	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.5	1.2	LANL Int BG LVL	2.41	2.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	36	40	06/09/05	68.7	132	88.3	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	99.4	1.1	LANL Int BG LVL	0.05	1988	10	ug/L	200		NQ	NQ	SW-846:6850	GELC	
C5	36	40	06/09/05	68.7	132	88.3	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	02/05/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	99.4	1.1	LANL Int BG LVL	0.05	1988	10	ug/L	200		NQ	NQ	SW-846:6850	GELC	
C5	42	60	06/15/05	25.4	56	42.6	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	METALS	Boron	B	52.5	1.2	LANL Int BG LVL	15.12	3.5	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	42	60	06/15/05	0.212	0.703	0.583	57	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.549	0.9	LANL Int BG LVL	0.03	18.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	42	60	06/15/05	42.8	75.5	63.95	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Calcium	Ca	62.5	1	LANL Int BG LVL	17.31	3.6	0.05	mg/L	1		J+	I6b	SW-846:6010C	GELC	
C5	42	60	06/15/05	21.2	64.8	53.45	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	55.5	1	LANL Int BG LVL	7.78	7.1	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	42	63	06/15/05	29.4	81.3	53.4	63	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	METALS	Chromium	Cr	78.8	1.5	LANL Int BG LVL	1	78.8	2	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	42	60	06/15/05	0.412	0.635	0.529	57	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.486	0.9	LANL Int BG LVL	0.23	2.1	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	42	60	06/15/05	8.49	15.7	13	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Magnesium	Mg	12.9	1	LANL Int BG LVL	6.12	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	42	60	06/15/05	2.9	41.8	19.15	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	METALS	Nickel	Ni	30.8	1.6	LANL Int BG LVL	1	30.8	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	42	60	06/15/05	7.62	20.4	10.35	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.48	0.8	LANL Int BG LVL	2.41	3.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	42	60	06/15/05	56.3	246	78.9	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	69.1	0.9	LANL Int BG LVL	0.05	1382	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	42	60	06/15/05	19.5	29.4	25.6	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Sodium	Na	26.8	1	LANL Int BG LVL	12.19	2.2	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	42	60	06/15/05	298	497	403.5	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	410	1	LANL Int BG LVL	127	3.2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	42	60	06/15/05	15.9	288	30.3	60	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	02/08/16	REG	F	INIT	METALS	Zinc	Zn	25.4	0.8	LANL Int BG LVL	2	12.7	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	39	10/21/08	0.194	0.683	0.548	38	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.666	1.2	LANL Int BG LVL	0.03	22.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	41	10/21/08	59.5	73.6	66.8	41	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Calcium	Ca	64.9	1	LANL Int BG LVL	17.31	3.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	39	10/21/08	53.4	71.9	61.5	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	68.7	1.1	LANL Int BG LVL	7.78	8.8	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	29	46	10/21/08	355	658	490	46	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	METALS	Chromium	Cr	355	0.7	LANL Int BG LVL	1	355	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	39	10/21/08	13.1	17.3	15.6	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Magnesium	Mg	15.4	1	LANL Int BG LVL	6.12	2.5	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	41	10/21/08	14.5	19.6	17	41	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	METALS	Nickel	Ni	15.3	0.9	LANL Int BG LVL	1	15.3	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	39	10/21/08	0.899	1.12	0.983	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.918	0.9	LANL Int BG LVL	0.05	18.4	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	29	39	10/21/08	77.9	103	90.3	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	87.9	1	LANL Int BG LVL	40.03	2.2	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	29	39	10/21/08	354	796	420	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	796	1.9	LANL Int BG LVL	127	6.3	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C5	29	41	10/21/08	1.2	2.15	1.6	41	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Uranium	U	1.85	1.2	LANL Int BG LVL	0.72	2.6	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	41	10/21/08	3.32	15	4.26	17	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	METALS	Zinc	Zn	5.53	1.3	LANL Int BG LVL	2	2.8	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	10	10	08/08/11	0.136	0.19	0.157	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.155	1	LANL Int BG LVL	0.03	5.2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	10	10	08/08/11	15.5	19.1	16.75	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	15.9	0.9	LANL Int BG LVL	7.78	2	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	10	10	08/08/11	2	3.82	2.455	6	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	METALS	Chromium	Cr	2.19	0.9	LANL Int BG LVL	1	2.2	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	10	10	08/08/11	0.438	0.693	0.471	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.461	1	LANL Int BG LVL	0.23	2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	10	10	08/08/11	4.86	6.54	5.585	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	5.83	1	LANL Int BG LVL	0.05	116.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	

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C5	10	10	08/08/11	1.39	2.23	1.825	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	12/08/15	REG	F	INIT	GENINORG	Uranium	U	1.87	1	LANL Int BG LVL	0.72	2.6	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	44	54	05/17/05	13.5	34.9	21.3	54	Sandia Canyon	Regional	R-11	855	02/08/16	REG	F	INIT	METALS	Chromium	Cr	22.6	1.1	LANL Reg BG LVL	5.75	3.9	2	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	43	51	05/17/05	2.27	7.43	5.17	51	Sandia Canyon	Regional	R-11	855	02/08/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.2	1	LANL Reg BG LVL	0.89	5.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	43	51	05/17/05	4.62	52.9	10.4	44	Sandia Canyon	Regional	R-11	855	02/08/16	REG	F	INIT	METALS	Zinc	Zn	8.39	0.8	LANL Reg BG LVL	3.89	2.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	40	48	02/24/00	2.6	18.2	9.7	47	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-15	958.6	02/04/16	REG	F	INIT	METALS	Chromium	Cr	12.4	1.3	LANL Reg BG LVL	5.75	2.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	36	42	05/25/05	5.34	9.05	7.025	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-15	958.6	02/04/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	8.67	1.2	LANL Reg BG LVL	0.46	18.8	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	41	44	05/20/05	0.113	0.33	0.229	41	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.309	1.3	LANL Reg BG LVL	0.1	3.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	41	44	05/20/05	21.1	39.3	30	44	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	35.8	1.2	LANL Reg BG LVL	3.57	10	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	42	46	05/20/05	310	472	403	46	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	METALS	Chromium	Cr	404	1	LANL Reg BG LVL	5.75	70.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	41	44	05/20/05	8.68	12.5	10.9	44	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Magnesium	Mg	11.7	1.1	LANL Reg BG LVL	4.15	2.8	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	41	44	05/20/05	6.1	34	14.5	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	METALS	Nickel	Ni	14.1	1	LANL Reg BG LVL	3.09	4.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	39	41	05/20/05	3.1	5.39	4.02	41	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.02	1	LANL Reg BG LVL	0.89	4.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	39	41	09/01/05	0.802	1.13	0.978	41	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.978	1	LANL Reg BG LVL	0.46	2.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	41	44	05/20/05	38.1	56.4	45.35	44	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	02/11/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	51.4	1.1	LANL Reg BG LVL	7.2	7.1	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	31	32	08/30/07	68	389	345.5	32	Sandia Canyon	Regional	R-35a	1013.1	02/02/16	REG	F	INIT	METALS	Barium	Ba	337	1	LANL Reg BG LVL	56.83	5.9	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	31	39	08/29/07	13.8	62.3	29.7	39	Sandia Canyon	Regional	R-35b	825.4	02/02/16	REG	F	INIT	METALS	Zinc	Zn	14.5	0.5	LANL Reg BG LVL	3.89	3.7	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	32	03/12/08	1.25	6.8	2.315	32	Sandia Canyon	Regional	R-36	766.9	02/08/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.42	1	LANL Reg BG LVL	0.89	2.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	27	30	03/12/08	0.845	1.74	1.58	30	Sandia Canyon	Regional	R-36	766.9	02/08/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.55	1	LANL Reg BG LVL	0.46	3.4	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	28	31	03/12/08	36.5	91.1	55.5	31	Sandia Canyon	Regional	R-36	766.9	02/08/16	REG	F	INIT	METALS	Zinc	Zn	36.8	0.7	LANL Reg BG LVL	3.89	9.5	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	30	10/09/08	0.102	0.364	0.217	29	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.298	1.4	LANL Reg BG LVL	0.1	3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	30	10/09/08	40.6	56.9	51.2	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Calcium	Ca	54.6	1.1	LANL Reg BG LVL	24.88	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	30	10/09/08	28.7	48.3	38.55	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	48.2	1.3	LANL Reg BG LVL	3.57	13.5	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	39	10/09/08	744	1240	894	39	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	METALS	Chromium	Cr	836	0.9	LANL Reg BG LVL	5.75	145.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	30	10/09/08	11.1	16.1	14.3	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Magnesium	Mg	15.5	1.1	LANL Reg BG LVL	4.15	3.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	30	10/09/08	8.8	34	24.05	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	METALS	Nickel	Ni	25.7	1.1	LANL Reg BG LVL	3.09	8.3	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	30	10/09/08	0.057	7.03	5.865	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.26	0.9	LANL Reg BG LVL	0.89	5.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	28	30	10/09/08	1.08	1.46	1.275	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.2	0.9	LANL Reg BG LVL	0.46	2.6	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	28	30	10/09/08	60.6	83.2	74.75	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	80.1	1.1	LANL Reg BG LVL	7.2	11.1	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	

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C5	28	30	10/09/08	0.631	2.84	1.07	29	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.812	0.8	LANL Reg BG LVL	0.33	2.5	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	28	30	10/09/08	4.5	28.1	10.6	29	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	02/04/16	REG	F	INIT	METALS	Zinc	Zn	10.9	1	LANL Reg BG LVL	3.89	2.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	33	11/05/08	3.6	8.59	6.18	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	FD	F	INIT	GENINORG	Chloride	Cl(-1)	8.43	1.4	LANL Reg BG LVL	3.57	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	33	11/05/08	3.6	8.59	6.18	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.4	1.4	LANL Reg BG LVL	3.57	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	38	11/05/08	2.35	155	42.2	35	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	FD	F	INIT	METALS	Chromium	Cr	155	3.7	LANL Reg BG LVL	5.75	27	2	ug/L	1		J	I4a	SW-846:6020	GELC	Highest concentration observed to date. Trend is increasing.
C5	29	38	11/05/08	2.35	155	42.2	35	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	REG	F	INIT	METALS	Chromium	Cr	153	3.6	LANL Reg BG LVL	5.75	26.6	2	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	29	32	11/05/08	5.01	6.15	5.42	31	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.89	1.1	LANL Reg BG LVL	0.89	6.6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	29	32	11/05/08	5.01	6.15	5.42	31	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.15	1.1	LANL Reg BG LVL	0.89	6.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	29	33	11/05/08	0.678	1.03	0.94	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.938	1	LANL Reg BG LVL	0.46	2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	29	33	11/05/08	0.678	1.03	0.94	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.03	1.1	LANL Reg BG LVL	0.46	2.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	29	33	11/05/08	8.77	21	11.8	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	16.3	1.4	LANL Reg BG LVL	7.2	2.3	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	33	11/05/08	8.77	21	11.8	33	Sandia Canyon	Regional	R-43 S1	903.9	02/16/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	16.2	1.4	LANL Reg BG LVL	7.2	2.3	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	30	11/10/08	0.389	5.4	1.335	30	Sandia Canyon	Regional	R-43 S2	969.1	02/16/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.28	3.2	LANL Reg BG LVL	0.89	4.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	25	29	02/17/09	7.34	18.7	14.2	29	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-44 S1	895	02/09/16	REG	F	INIT	METALS	Chromium	Cr	17.6	1.2	LANL Reg BG LVL	5.75	3.1	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	23	27	02/28/09	8.4	39.8	17.9	27	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	02/10/16	REG	F	INIT	METALS	Chromium	Cr	39.8	2.2	LANL Reg BG LVL	5.75	6.9	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	Highest concentration observed to date. Trend is increasing.

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	23	23	02/28/09	0.256	3.47	2.4	23	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	02/10/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.01	1.3	LANL Reg BG LVL	0.89	3.4	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	23	28	03/05/09	6.1	18.4	9.94	27	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S2	974.9	02/10/16	REG	F	INIT	METALS	Chromium	Cr	18.3	1.8	LANL Reg BG LVL	5.75	3.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	30	03/06/10	4.68	9.78	7.295	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	02/16/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.78	1.3	LANL Reg BG LVL	3.57	2.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	25	32	03/06/10	49.8	139	91.65	32	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	02/16/16	REG	F	INIT	METALS	Chromium	Cr	139	1.5	LANL Reg BG LVL	5.75	24.2	2	ug/L	1		J	I4a	SW-846:6020	GELC	Highest concentration observed to date. Trend is increasing.
C5	25	30	03/06/10	1.51	9.85	5.88	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	02/16/16	REG	F	INIT	METALS	Nickel	Ni	6.99	1.2	LANL Reg BG LVL	3.09	2.3	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	15	21	03/26/12	1.64	11.7	8.26	21	Sandia Canyon	Regional	R-62	1158.4	02/19/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.82	1.2	LANL Reg BG LVL	3.57	2.8	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	15	21	03/26/12	104	240	135	21	Sandia Canyon	Regional	R-62	1158.4	02/19/16	REG	F	INIT	METALS	Chromium	Cr	183	1.4	LANL Reg BG LVL	5.75	31.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C6	55	63	03/12/01	0.11	1.51	1.01	63	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	02/12/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.934	0.9	NM GW STD	1.6	0.6	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C6	29	39	10/21/08	354	796	420	39	Sandia Canyon	Intermediate	SCI-2	548	02/11/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	796	1.9	NM GW STD	1000	0.8	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	Abnormally high result, reanalysis was requested.
C6	23	27	02/28/09	8.4	39.8	17.9	27	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	02/10/16	REG	F	INIT	METALS	Chromium	Cr	39.8	2.2	NM GW STD	50	0.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	Highest concentration observed to date. Trend is increasing.